

METHOD AND SYSTEM FOR ENERGY CONSERVATION IN IMPLANTABLE  
STIMULATION DEVICES

ABSTRACT

5       The invention relates to a stimulation device with power  
conservation functionality. In implantable devices, power  
supplies may be limited. Replenishing these power supplies may  
require costly surgery or periodic recharging depending on the  
model. A method may be implemented that skips or drops periodic  
10   pulses without apparently changing the frequency of the pulses.  
In this manner, the dropped pulses may be undetected by the  
patient. On the other hand, the dropped pulse represents power  
savings. Dropping one in ten pulses may lead to a 10% energy  
savings. The stimulation device may implement the method with  
15   one or more counters implemented in hardware or software.